

# V&V Summary Report

## L2 ASCDS Version : 7.6.11.1

Observation 1045 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 10 2007

See axaff01045N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	74.009

## Comments

Roll constraint met.=====

WARNING: there are no standard ciao tools for analysis of grating spectra from extended sources. The shape of an emission 'line' will be the shape of the zero order spatial structure convolved with the instrumental LSF. Grating extractions can be used, but need to be combined with custom spatial-spectral analysis, since wavelength is multi-valued at any particular diffraction angle. WARNING::Zeroth order selected by pipeline tools is on a bright filament southwest of the center of the supernova remnant. The user will need to select a region or source of interest, then use software tools such as CIAO to specify the coordinates of the zeroth order source of interest before running the tools to resolve the dispersed events. The spectral data supplied in this processing are only energy-calibrated for the particular emission filament selected. However, it should be noted that the emission filament that has been selected as the zeroth order source is filamentary and curved, so the energy assignments to the events should take the spatial information into account. The zeroth order used for extracting the spectral data in this processing is not located at the position of the brightest X-ray emission in the filament.

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The bias map for CCD\_ID = 9 suffered from anomalously high bias values in an 'exacto-knife'-shaped area of the bias file. Pixels in the event data that have been bias-corrected by one of the affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD\_ID=9 was recreated to remove this anomaly and the data were reprocessed.

seq_num	500111
obs_id	1045
title	HIGH RESOLUTION SPECTRA OF YOUNG SUPERNOVA REMNANTS
observer	Prof. Claude Canizares
object	N103B
dtcycle	0
cycle	P
ra_targ	77.26625
dec_targ	-68.721944
ra_nom	77.275421066659
dec_nom	-68.725007199688
roll_nom	340.10473519193
revision	3
ontime	74009.600068927
livetime	73072.445949623
ontime4	74009.600068927
ontime5	74009.600068927
ontime6	74009.600068927
ontime7	74009.600068927
ontime8	74003.118118525
ontime9	74006.359048843
l2events	761443

